

## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <a href="http://about.jstor.org/participate-jstor/individuals/early-journal-content">http://about.jstor.org/participate-jstor/individuals/early-journal-content</a>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

water, which they fetch wholly from Springs, whereof the Country is so full, that there is not a house but hath one nigh the door.

Advertisement concerning the Quantity of a Degree of a Great Gircle, in English measures.

Ome while since an account was given \* concerning the Quantity of a Degree of a great Circle, according to the tenour of a printed French Discourse, entituled De la Mesure de la Terre. The Publisher not then knowing what had been done of that nature here in Fraland, but having been since directed to the perusal of a

here in England, but having been fince directed to the perusal of a Book, composed and published by that known Mathematician Richard Norwood in the year 1636, entituled The Seaman's Practice, wherein, among other particulars, the compass of the Terraqueous Globe, and the Quantity of a Degree in English measures are deliver'd, approaching very near to that, which hath been lately observ'd in France; he thought, it would much conduce to mutual confirmation, in a summary Narrative to take publick notice here of the method used by the said English Mathematician, and of the result of the same; which, in short, is as follows:

A. 1635 the faid Mr. Norwood, Reader of the Mathematicks in London, observ'd, as exactly as he could, the Summer-Solstitial Meridian Altitude of the Sun in the middle of the City of York, by an Arch of a Sextant of more than five foot radius, and found it to be 59 deg. 33'. And formerly (vid. A. 1633.) he had observ'd the like Altitude in the City of London near the Tower to be 62 deg. 1'. Whereupon he actually measured, for the most part, the way from York to London with Chains, and where he measur'd not, he paced it, (wherein, he faith, through custom he usually came very near the truth;) observing all the way he came, with a Circumferenter, all the principal Angles of polition or windings of the way, with a competent allowance for other leffer Windings, Ascents and Descents; not laying these down by a Protractor after the usual manner, but framing a Table much exacter and fitter for this purpose; as may be seen in the English book it self. this Method and Measure he found the Parallel of York from that of London to be 9:49 chains, every chain being fix poles or ninety nine feet, 16 English feet to a Pole. Now, these 9149 Chains being equal to 2 deg. 28 1/ the aforesaid Latitude between those two Cities) a little calculation makes it appear, that one Degree of a Great Circle, measured on the Earth, is 367196 of our feet, numero rotundo 367200, or 22254 Poles; which make 556 Furlongs and 14 Poles.

14 Poles, or  $69\frac{1}{1}$  English miles and 14 Poles; 8 Furlongs to a mile, and 40 Poles to a Furlong. Which being compared to that measure of a Degree, which is deliver'd in the above-mention'd French Discourse, will be found to come very near it, they finding 73 miles fere, at 5000 feet to an English mile, which make 365000 feet; whereas the  $69\frac{1}{1}$  English miles and 14 Poles, found by Mr. Normood, amount to 367200 feet, reckoning 5280 feet to an English mile, as the true measure of it is; whence the difference between these two measures appears to be no more than 2200 feet, which is not half an English mile by 440 feet.

If any one defire to know further the whole Circumference, as alfo the Diameter and Semidiameter of the faid Terraqueous Globe,

according to this measure, he will easily find,

The Circumference to be
The Diameter,
The Semidiameter,

25056 ferè.
7966
3983

Observations made of the late Solar Eclipse on the first of June, 1676. st.v.

One, by Francis Smethwick Esquire, as followeth:

Nitium defectionis Westmonasterii h.7. 50. 2 post med. noctem Finis, h 9. 543. 5 Junii 1. 1676.

Totius Eclipsis duratio, hora 2. 4'3.

Tempus observatum suit cum horologio oscillitario, vibrante minuta secunda, & correcto per observationes. Tubus adhibitus suit bona nota, pedum 7\frac{1}{2}.

The other, by Mr. Colson at Wapping, near London, as followeth;

	Temp. juxta		Solis	Tempus correct.	
	horolofcill.	Phases.	alt.	exaltite	
	h. , "	1	. 0 ,	h. , ,	
	7.34.50			7.36. 0	
	7.37.14		33.10	7.38.40	
	7.39.10	dig.	33.30	7.40.48	
	7.50.40	4		7.51.51	Tubo optico assim.
	dub.8. 8.34	14.		8. 9.45	Tubo optico mensur.
	8.17.25	26		8.18.36	
	8.27.10	3.0		8.28.21	
		I		9.40	Tubo estim.
	9.43.			9.44	·
	9.48.	4		9.49	
	9.54.25	non fenita		9.55.36	
	9.55.55	finita.		9.57. 6	
	4.26. 5	Solis alts	32.10	4.26.56	
- an other	4.28.58		31.53	4.29.52	
5	4.31. 21		31.31	4.32.16	